

1N5913B thru 1N5956B

SCOTTSDALE, AZ

For more information call: (602) 941-6300

FEATURES

- ZENER VOLTAGE 3.3V TO 200V
- WITHSTANDS LARGE SURGE STRESSES
- ALSO AVAILABLE IN PLASTIC CASE, CONSULT FACTORY.

MAXIMUM RATINGS

Junction and Storage: -55°C to +200°C

DC Power Dissipation: 1.5 Watt

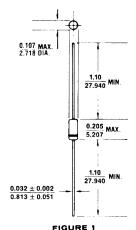
12 mW/°C above 75°C

Forward Voltage @ 200 mA: 1.2 Volts

ELECTRICAL CHARACTERISTICS @ TL = 30 °C

	JEDEC Type Number	ZENER VOLTAGE V _Z	TEST CURRENT	DYNAMIC IMPEDANCE Z _{ZT}	KNEE CURRENT	KNEE IMPEDANCE Z _{ZK}	REVERSE CURRENT In (MAX.)	REVERSE VOLTAGE V _R	MAX. DC CURRENT
- 1	NUMBER	Volts	mA	Ω	mA.	Ω	μ Adc	Volts	mA
\vdash	1N5913	3.3	113.6	10	1.0	500	100	1.0	454
- 1	1N5914	3.6	104.2	9.0	1.0	500	75	1.0	416
1	1N5915	3.9	96.1	7.5	1.0	500	25	1.0	384
	1N5916	4.3	87.2	6.0	1.0	500	5.0	1.0	348
	1N5917	4.7	79.8	5.0	1.0	500	5.0	1.5	319
1	1N5918 1N5919	5.1 5.6	73.5 66.9	4.0	1.0	350	5.0	2.0	294
	1N5919	6.2	60.5	2.0 2.0	1.0 1.0	250	5.0	3.0	267
	1N5920	6.8	55.1			200	5.0	4.0	241
-	1N5921	7.5	50.1	2.5 3.0	1.0 0.5	200 400	5.0	5.2	220
	1N5923	8.2	45.7	3.5	0.5	400	5.0 5.0	6.0	200
1	1N5924	9.1	41.2	4.0	0.5	500	5.0 5.0	6.5	182
	1N5925	10	37.5	4.0	0.5	500	5.0 5.0	7.0 8.0	164
	1N5926	111	34.1	5.5	0.25	550	1.0	8.4	150 136
	1N5927	12	31.2	6.5	0.25	550	1.0	9.1	125
İ	1N5928	13	28.8	7.0	0.25	550	1.0	9.9	115
	1N5929	15	25	9.0	0.25	600	1.0	11.4	100
	1N5930	16	23.4	10	0.25	600	1.0	12.2	93
	1N5931	18	20.8	12	0.25	650	1.0	13.7	83
	1N5932	20	18.7	14	0.25	650	1.0	15.2	75
1	1N5933	22	17	17.5	0.25	650	1.0	16.7	68
	1N5934	24	15.6	19	0.25	700	1.0	18.2	62
	1N593 5	27	13.9	23	0.25	700	1.0	20.6	55
1	1N5936	30	12.5	28	0.25	750	1.0	22.8	50
	1N5937	33	11.4	33	0.25	800	1.0	25.1	45
	1N5938	36	10.4	38	0.25	850	1.0	27.4	41
	1N5939	39	9.6	45	0.25	900	1.0	29.7	38
	1N5940 1N5941	43	8.7	53	0.25	950	1.0	32.7	34
	1N5941	47 51	8.0	67	0.25	1000	1.0	35.8	31
	1N5942	56	7.3 6.7	70 86	0.25	1100	1.0	38.8	29
	1N5944	62	6.0	100	0.25 0.25	1300 1500	1.0	42.6	26
	1N5945	68	5.5	120	0.25	1700	1.0 1.0	47.1 51.2	24 22
	1N5946	75	5.0	140	0.25	2000	1.0	56	20
	1N5947	82	4.6	160	0.25	2500	1.0	62.2	18
	1N5948	91	4.1	200	0.25	3000	1.0	69.2	16
	1N5949	100	3.7	250	0.25	3100	1.0	76	15
	1N5950	110	3.4	300	0.25	4000	1.0	83.6	13
1	1N5951	120	3.1	380	0.25	4500	1.0	91.2	12
1	1N5952	130	2.9	450	0.25	5000	1.0	98.8	11
	1N5953	150	2.5	600	0.25	6000	1.0	114	10
1	1N5954	160	2.3	700	0.25	6500	1.0	121.6	9.0
1	1N5955	180	2.1	900	0.25	7000	1.0	136.8	8.0
	1N5956	200	1.9	1200	0.25	8000	1.0	152	7.0

SILICON 1.5 WATT ZENER DIODES



All dimensions in INCH m.m.

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed, axial leaded glass package (DO-41).

FINISH: Corrosion resistant. Leads are solderable.

THERMAL RESISTANCE: 60°C/W junction to lead at 0.375-inches from body.

POLARITY:

Banded end is cathode.

WEIGHT: 0.4 grams (Typical).

1N5913B thru 1N5956B

NOTE 1 No suffix indicates a $\pm 20\%$ tolerance on nominal V_Z. Suffix A denotes a $\pm 10\%$ tolerance, B denotes a $\pm 5\%$ tolerance, C denotes a $\pm 2\%$ tolerance, and D denotes a $\pm 1\%$ tolerance.

NOTE 2 Zener voltage (Vz) is measured at $T_L = 30$ °C. Voltage measurement to be performed 90 seconds after application of DC current.

NOTE 3 The zener impedance is derived from the 60 Hz ac voltage, which results when an ac current having an rms value equal to 10% of the DC zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} .

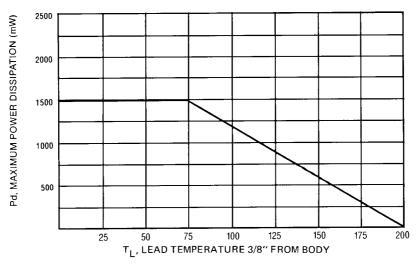
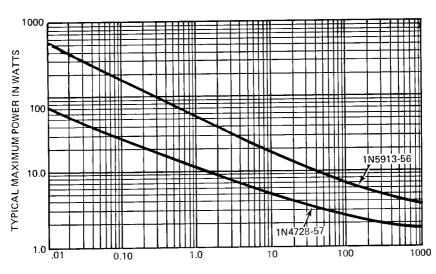
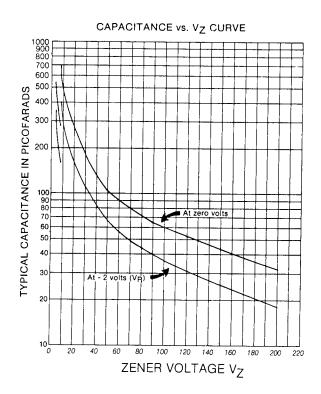


FIGURE 2. POWER DERATING CURVE



SQUARE WAVE PULSE WIDTH (NON-REPETITIVE) IN MILLISECONDS FIGURE 3. TRANSIENT SURGE CAPABILITY OF DO-41 GLASS DIODE

1N5913B thru 1N5956B



Copyright © Each Manufacturing Company.

All Datasheets cannot be modified without permission.

This datasheet has been download from:

www.AllDataSheet.com

100% Free DataSheet Search Site.

Free Download.

No Register.

Fast Search System.

www.AllDataSheet.com